Work Order ID 64936 Tuesday, January 04, 2011 11:15:24 AM									Page 1
Item ID: D3269-2 Revision ID:	A	ccept				s	etup Star		
Item Name: Bubble Window, RH Start Date: 1/4/2011 Start Qty: 4.00 Required Date: 1/7/2011 Req'd Qty: 4.00 Reference:			Cust Item II Customer:) :			Stop		
Approvals: Process Plan: QC:		Tooling: SPC (Y/N):	Da		- 	R	tun Star Stoj		
Sequence ID/ Operation Work Center ID Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr Revision Nbr D3269 Rev E		:							•
100 HAND FINISHING THE Thermoform Memo		0.00	-			<u>x</u> 3			De
Thermoforming Machine Set up Clamp	ping Frame and Load Program	ı⊡as per Folio FTA 014							14/01/09
110 HAND FINISHING THE Thermoform Thermoforming Machine Cut Blanks to		0.00		·	3	<u>3</u> 3x20''			11000

120



Thermoforming Machine

THERMOFORMING MACHINE

Memo

0.00

0.00

Thermoform as per Dwg. D3269 and Folio FTA 014 □Dwg. Rev. □Folio Rev. □Folio Rev.

W/O:			W	ORK ORDER CHAN	IGES					ŗ
DATE	STEP	PRO	CEDURE CHA			Зу	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate	egory:	NCR:	Yes N	o DQA		_ Date: _	
	Re	esolution:	Disposition	on:	QA: N	I/C Clos	sed:		Date:	
NCR:			WORK ORD	ER NON-CONFOR	MANCE (NCR)				
		Description of NC			ection B		Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descriptio Chief Eng	n '	Sign & Date	Section		Chief Eng	QC Inspector
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Work Order ID 64936

Tuesday, January 04, 2011 11:15:24 AM



Page 2

Item ID:

D3269-2

Accept



Setup Start

Stop



Revision ID:

Item Name:

Required Date: 1/7/2011

Bubble Window, RH

Start Date:

1/4/2011

Start Qty: 4.00

Req'd Qty: 4.00



Cust Item ID: Customer:

Reference:

Approvals:

Process Plan: Date:

Tooling:

Date:

Start Run



QC: _____ Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**

130

QC

Quality Control

Operation **Description**

QC2- Inspect parts off machine FAI/FAIB

Set Up/ **Run Hours**

0.00

Tool ID

Tool # Plan Accept Code Qty

Reject Qty

Reject Number

Insp. Stamp

0.00 Memo

1) Check Surface finish for undesired marks, voids, dimples etc. 2) Check depth of bubble to ensure conformity to drawing tolerances.

140

QC Quality Control QC8- Inspect parts - second check

0.00

Memo

0.00

150

Thermoform

Thermoforming Machine

0.00

HAND FINISHING THERMOFORMING

Memo

0.00

1) Trim off excess flange material 2) Buff out any light scratches or blemishes □3) Etch part number and batch number

W/O:			WORK ORDER	CHANGES				•
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Category:	NCR: Yes	No DQ	A :	Date: _	
	Resolut	ion:	Disposition:	QA: N/C (Closed:		Date: _	

NCR:	WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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Work Order ID 64936

Tuesday, January 04, 2011 11:15:24 AM



Page 3

Item ID:

D3269-2

Accept



Setup Start

Stop

Start

Stop



Revision ID:

Item Name:

Bubble Window, RH

Start Date:

1/4/2011

Start Qty: 4.00

Required Date: 1/7/2011

Req'd Qty: 4.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

QC:

Date:_____

SPC (Y/N):

Set Up/

Date:

Tool ID

Tool # Plan

Code

Accept Reject

Qty

Reject Number

lnsp. Stamp

Sequence ID/ **Work Center ID**

160

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Run Hours 0.00

Salorlas

Qty

1) VIsually inspect for clarity, and proper formation.

170

Packaging

Packaging

Identify as per dwg & Stock Location:

Packaging

Memo

Memo

0.00

0.00

180

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

11/01/12 Dy Mr 11-01-11

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Picklist Print

Tuesday, January 04, 2011 11:15:33 AM

Work Order ID: 64936

Parent Item:

D3269-2

Parent Item Name:

Bubble Window, RH



Start Date: 1/4/2011

Required Date: 1/7/2011

Page 1

Start Qty: 4.00

Required Qty: 4.00

Comments:

IPP A□ 05.03.22□ New issue□

IPP B 05.05.09

Added engraving EC

IPP Rev:06-07-03

As per Rev C JLM

IPP C 07.11.06 Thermoform in-house DL verified by:EC

IPP Rev: D 08.07.24 As per New Tool DL.

Component Item	ID/
Item Name	

Replacement Mfg/ Item ID Purch

Primary Bin Item Location

KJ/JLM□

Last Location Route Seq ID Unit of Qty on Measure Hand

Qty per Kit Total

Qty

Date Status Issued

MACRYLICS.177

Purchased

No

sf

151.0172

11.458

45.832

Qty

Issued

Location

therm

107291

Loc Oty

151.0172

73.0172

34.375

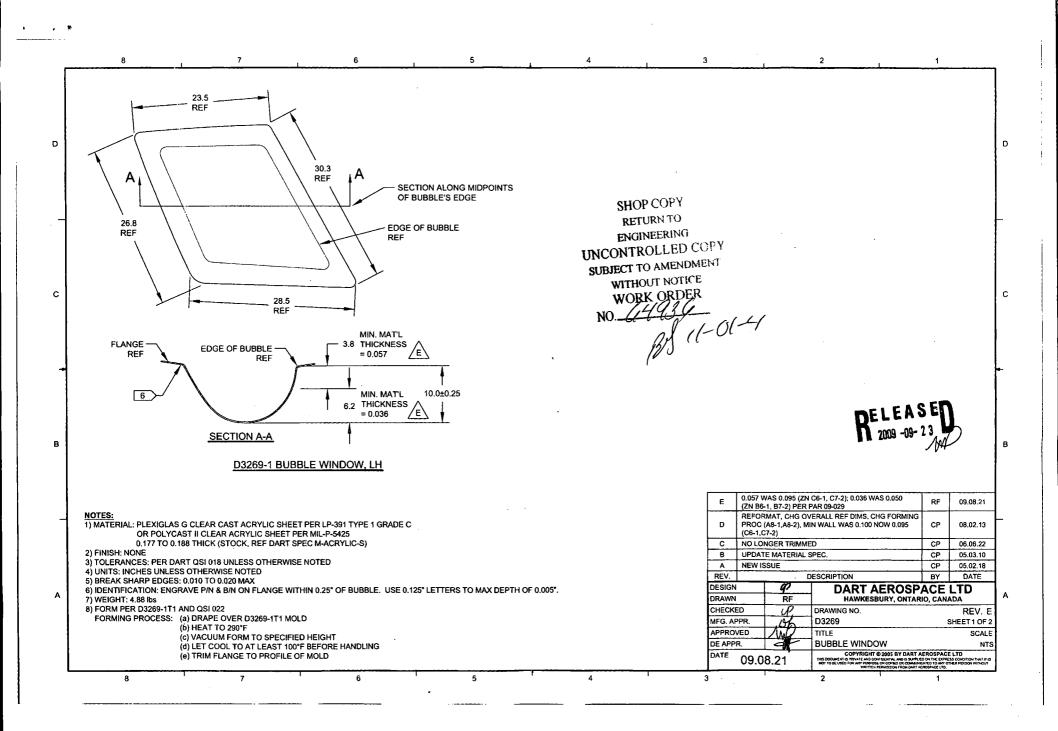
Loc Code

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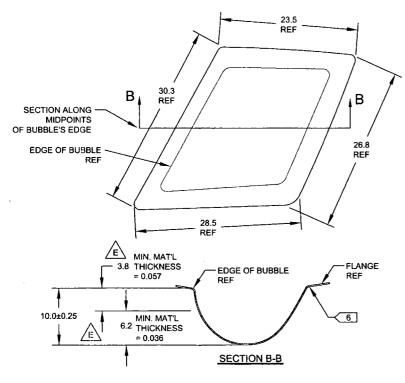
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Desci	ription: bub	ble Window, Kri (K4	4)			ir italiser.	
inspe	ction Dwg:	D3269 Rev: E					Page 1 of 1
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		T	HERMOFORN	IING SE	CTION		:
Desc	ription			Accept	Reject	Method of Inspection	Comments
Depth	of bubble w	vithin tolerances		-			
•	e Definition			V			
Materi scratc		tions such as bumps,	cracks, voids,				
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	Drawing Imension	Tolerance		Accept	Reject	Method of Inspection	Comments
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	•	+/-0.25 0.036 Min	Dimension	V	Reject	1	Comments
	mension 10.0	+/-0.25	Dimension 9,925		Reject	1	Comments
	10.0 6.2	+/-0.25 0.036 Min	Dimension	V	Reject	1	Comments
	10.0 6.2	+/-0.25 0.036 Min	Dimension 9,925	V	Reject	1	Comments
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Di	Measured Audited	+/-0.25 0.036 Min 0.057 Min	Dimension 9,925	V	Reject	Date:	
Proto	Measured Audited	+/-0.25 0.036 Min 0.057 Min	Dimension 9,925	V	Reject	Date:	11/01/06
Di	Measured Audited	+/-0.25 0.036 Min 0.057 Min	Dimension 9,925	V	Reject	Date:	11/01/06

Dart Ae	rospace	Ltd								
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Verific Section	on C	Chief Eng	QC Inspector
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D3269-2 BUBBLE WINDOW, RH

Α

2) FINISH: NONE

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.010 TO 0.020 MAX

6) IDENTIFICATION: ENGRAVE PIN & BIN ON FLANGE WITHIN 0.25" OF BUBBLE. USE 0.125" LETTERS TO MAX DEPTH OF 0.005".

7) WEIGHT: 4.88 lbs

8

8) FORM PER D3269-2T1 AND QSI 022

FORMING PROCESS: (a) DRAPE OVER D3269-2T1 MOLD

(b) HEAT TO 290°F

(c) VACUUM FORM TO SPECIFIED HEIGHT

(d) LET COOL TO AT LEAST 100°F BEFORE HANDLING

(e) TRIM FLANGE TO PROFILE OF MOLD



DESIGN	P	DART AEROSP	ACE LTD			
DRAWN	RF	HAWKESBURY, ONTAI	RIO, CANADA			
CHECKED	P	DRAWING NO.	REV, E			
MFG. APPR.	156	D3269	SHEET 2 OF 2			
APPROVED	1M2	TITLE	SCALE			
DE APPR.	_ - #-	BUBBLE WINDOW	NTS			
DATE 09.0	8.21	COPYRIGHT © 2005 BY DART AEROSPACE LTD THIS DOCUMENT IS PROVATE AND CONFEDENTIA, AND IS APPRIED OF THE EXPRESS CONDITION THAT NOT TO BE USED FOR ANY PURPOSE ON COMPANY AND TO A PROVINCE TO THE PERSON WITH WATTEN PENSON TROW DAFT AEROSPACE LTD.				

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